

DATE REVISED: 12-03-87

OBJECTIVE: To evaluate and analyze cost-shared and incentive projects which will simulate improved methods/processes for EOR that offer substantial opportunities for achieving enhanced process performance, improved predictability, and cost reduction. The results will provide essential technical data and cost/benefit prediction which can be made available to permit private industry to make informed decisions relating to prospective field application of EOR processes

CONTRACT NO.: DE-AC19-85BC10830  
 CONTRACT AMT: 0  
 B AND R CODE: AC1510100  
 PADS CNTRL NO:

CONTRACTOR:  
 Keplinger Technical Consultants, Inc.

ADDRESS: 6849 E. 13th Street  
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CONTRACT PERFORMANCE PERIOD:  
 04-15-85 TO 04-15-89  
 PROJECT BEGINNING: 04/85

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PROJECT SITE:  
 BARTLESVILLE, OK 74003

SCHEDULE MILESTONES:

Post-project analysis for Big Muddy	02/88
Post-project analysis for Robinson.	12/87
Post-project analysis for Weeks Island.	04/88
Incentive project injection and production data formatted for data base.	06/88

CONTR.	FUNDING (1000'S)	DOE	OTHER	CONTRACTOR	TOTAL
FUNDING					
	PRIOR FISCAL YRS	310	0	0	310
	FISCAL YR 1988	160	0	0	160
	FUTURE FUNDS	0	0	0	0
	TOTAL EST'D FUNDS	470	0	0	470

PROJECT DESCPTN: The work called for is for analysis and evaluation of DOE's Cost Shared Demonstration and Enhanced Oil Recovery Incentive Program projects which should contribute substantially to increased predictability and improved process performance, and thus ultimate commercialization. Although past research and development programs have resulted in considerable progress in field application of EOR processes, an analysis of the state-of-the-art indicates that most constraints recognized early-on still exist; however, they have become more specific in nature. A continuing and intensive basic research program, based on analysis and evaluation is needed to increase our understanding of how reservoir characterization, displacement mechanism, mobility control, and predictive modeling of EOR processes continue to constrain the efficient predictable performance and commercial applicability.

PRESENT STATUS: Project continuing on schedule.

ACCOMPLISHMENTS: Incentive project data for 1986 has been received and entered into the computer. Some verification of the data remains to be completed. Post project analysis for Wilmington and El Dorado fields completed and analysis of Robinson and Big Muddy are nearing completion.

BACKGROUND: In June 1975, the DOE initiated the Cost Share Field Demonstration Program in conjunction with the petroleum industry in an effort to encourage individual companies to undertake EOR projects using EOR techniques in selected geologic environments. A total of 28 contracts were awarded for EOR projects with the individual companies covering different EOR processes. As a deliverable for DOE support, the companies were required to provide extremely detailed reports of the projects operation, including but not limited to all engineering and geological data they obtained from the project. The reports were in the form of annual reports for each year of operation and a final report when the project was completed. The quantity of data provided varies considerably depending on the type and number of years it was in operation. In 1980, a second DOE EOR program, the Enhanced Oil Recovery Incentive program was implemented to further stimulate EOR field applications. These projects require considerably less detail in documentation than the Cost-Shared Program, hence the quantity and quality of the data is in most cases considerably less. However, the analysis and evaluation of some of the better documented projects can be of considerable value and assistance to the petroleum industry if made available to all interested parties.